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$$\gamma_{LV} \cdot \cos \theta = \gamma_{SV} - \gamma_{SL}$$

γ : FREE ENERGY PER UNIT AREA
OR SURFACE TENSION

L: LIQUID

S: SOLID

V: VAPOR

SL: SOLID/LIQUID INTERFACE

θ : CONTACT ANGLE

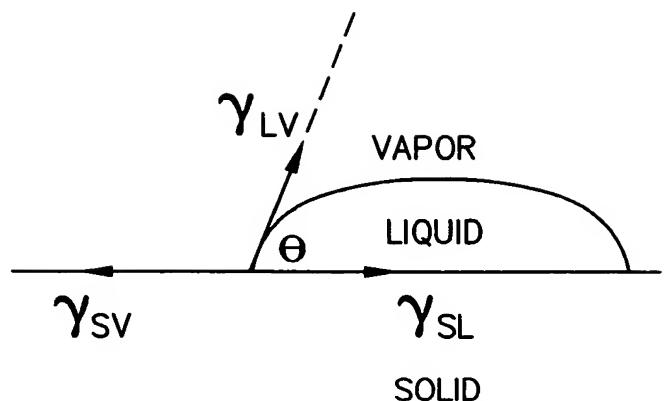
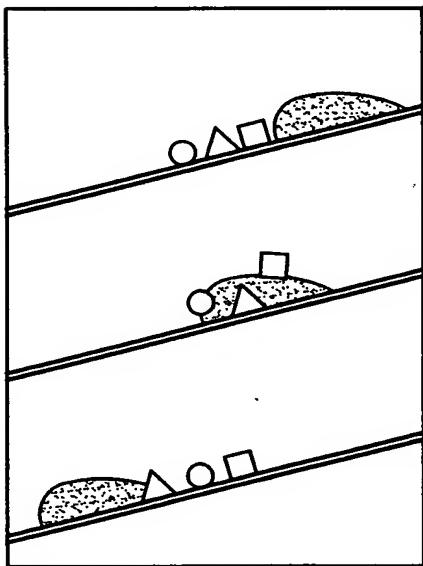
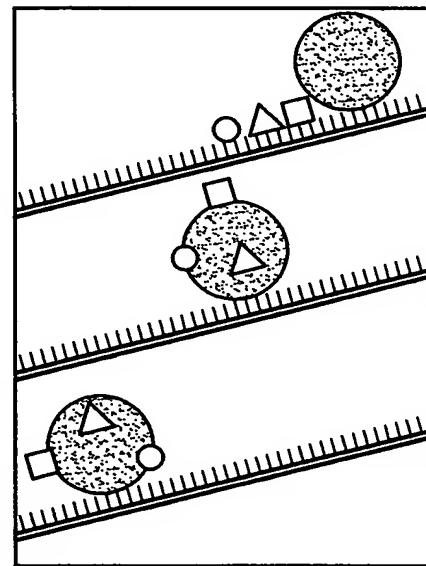


Figure -1-



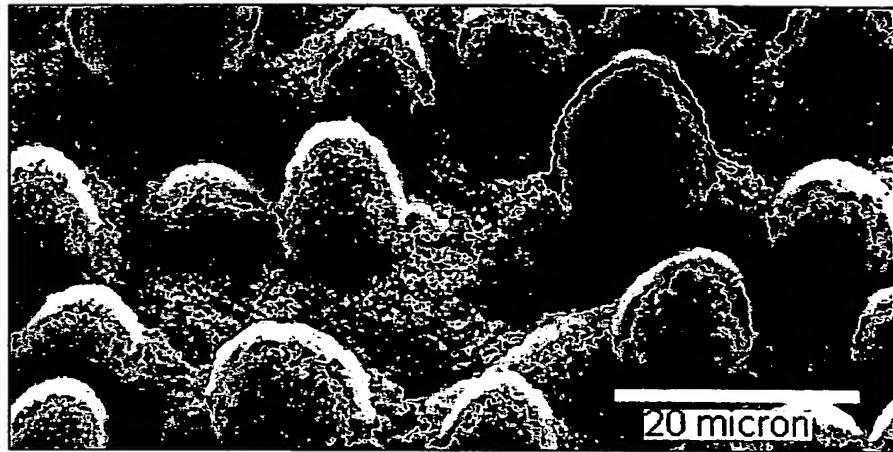
SMOOTH SURFACE



ROUGH SURFACE

Figure -2-

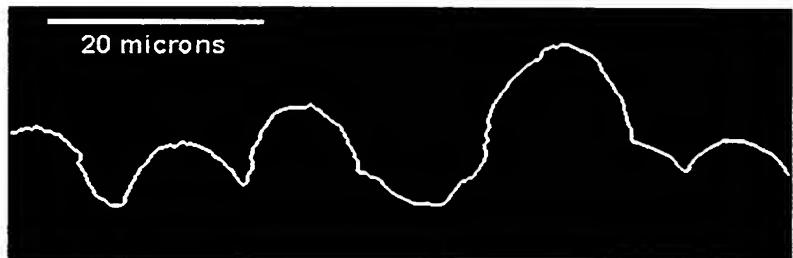
CASE 5602
2/9



LOTUS LEAF STRUCTURE
Figure -3-

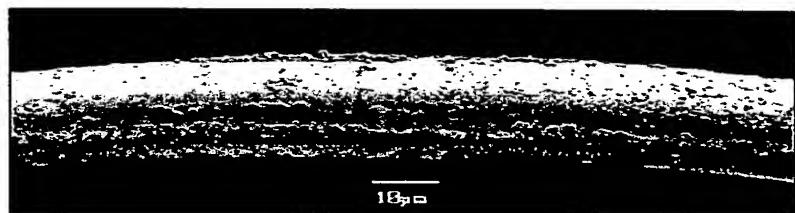


LOTUS STRUCTURE
Figure -3A-



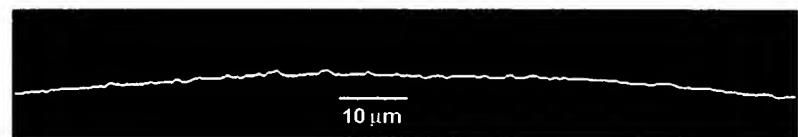
LOTUS PROFILE
Figure -3B-

CASE 5602
3/9



PRIOR ART

Figure -4-



PRIOR ART PROFILE

Figure -4A-

CASE 5602
4/9

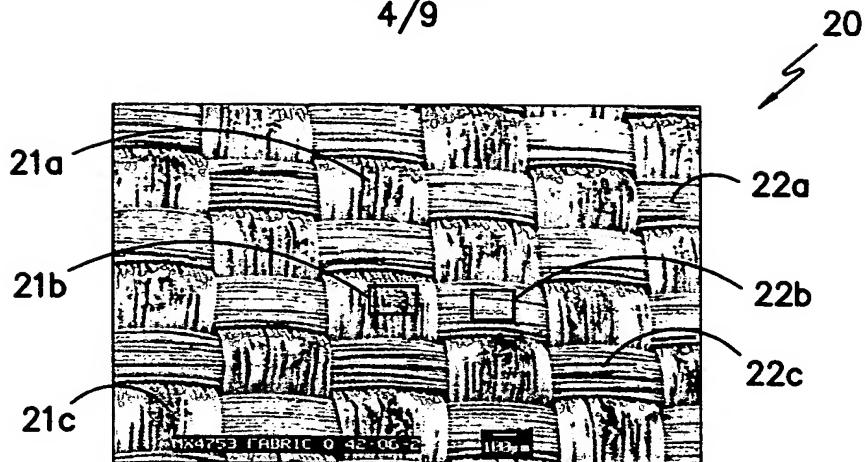


Figure -5-

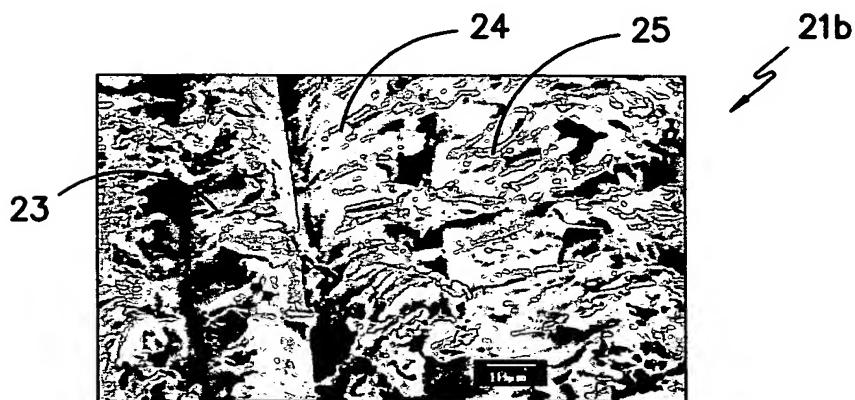


Figure -5A-

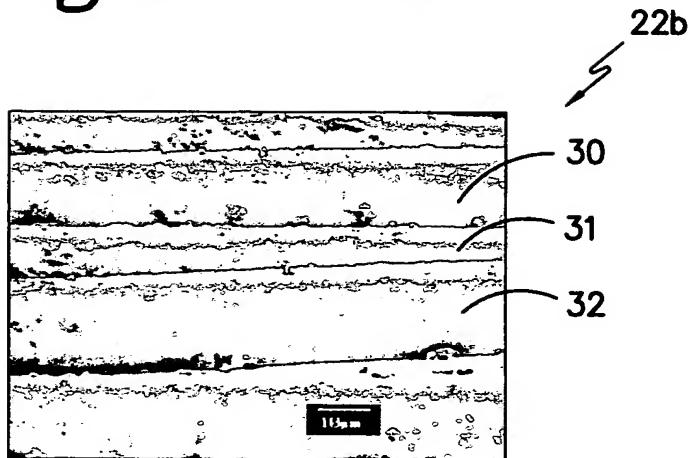


Figure -5B-

CASE 5602
5/9

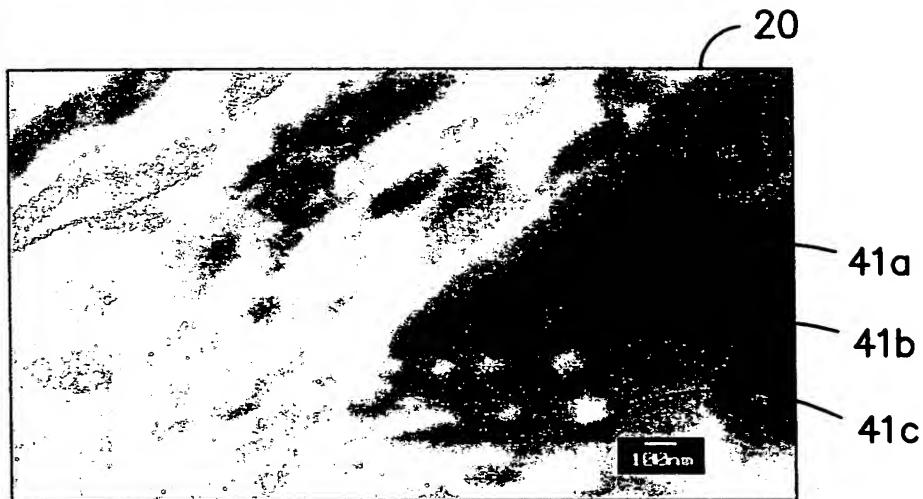


Figure -5C-

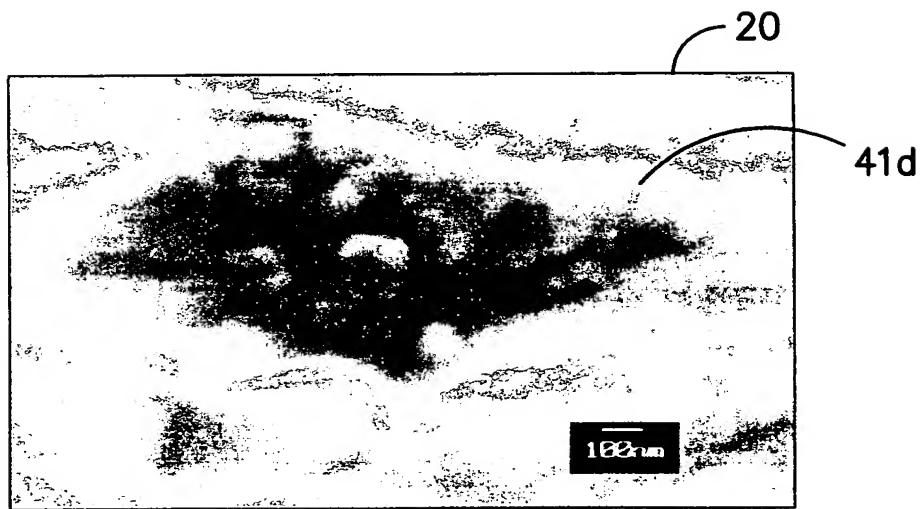


Figure -5D-

CASE 5602
6/9

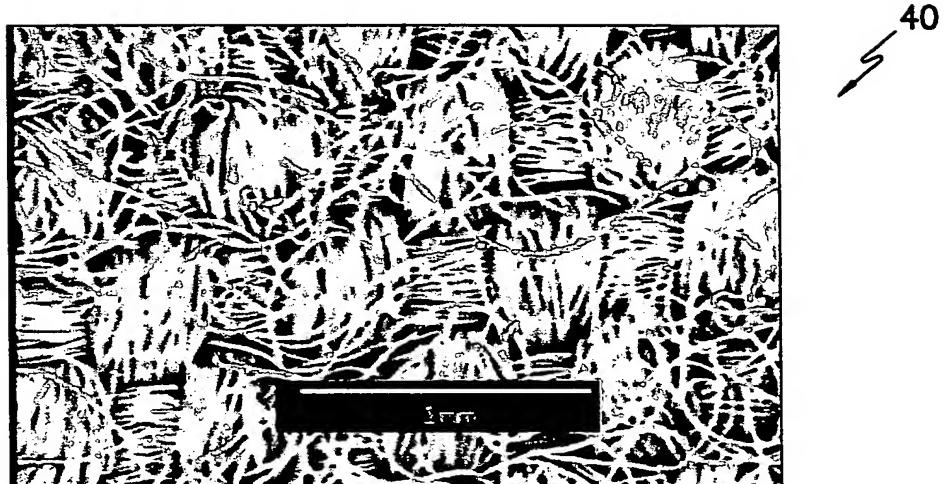


Figure -6-



Figure -7A-



Figure -7B-

CASE 5602
7/9

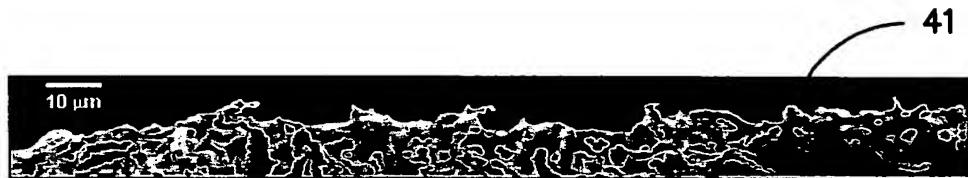


Figure -7C-



Figure -7D-



Figure -7E-

CASE 5602
8/9

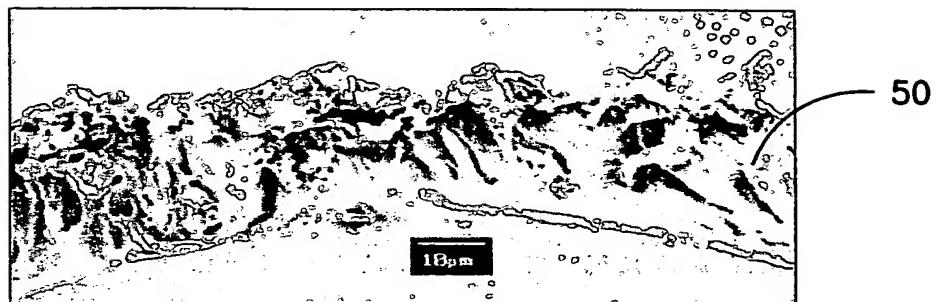


Figure -8A-



Figure -8B-

CASE 5602
9/9

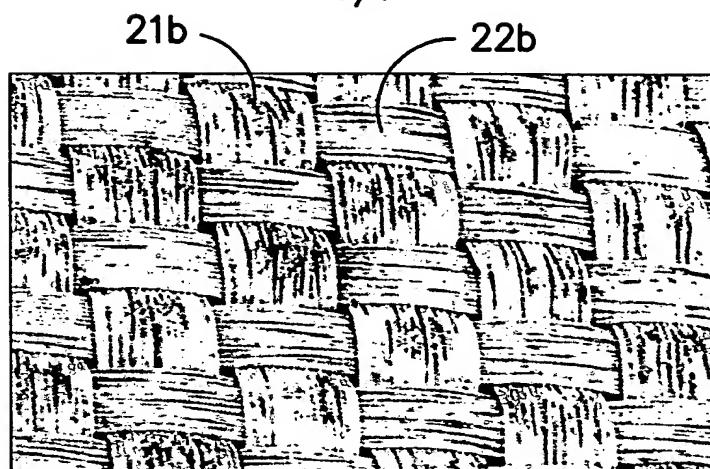


FIG. -9A-

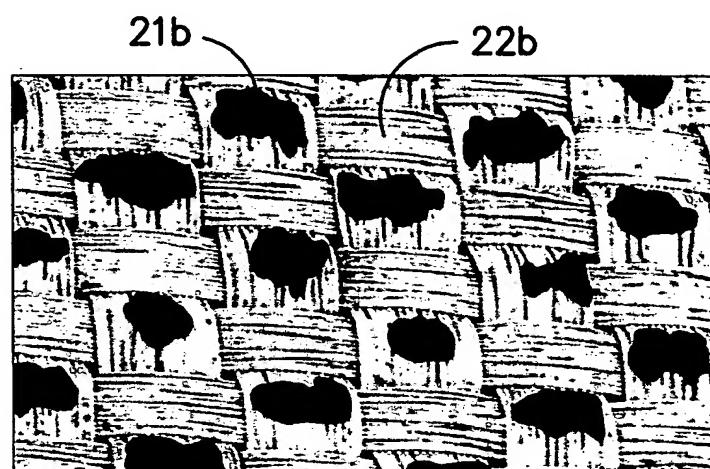


FIG. -9B-

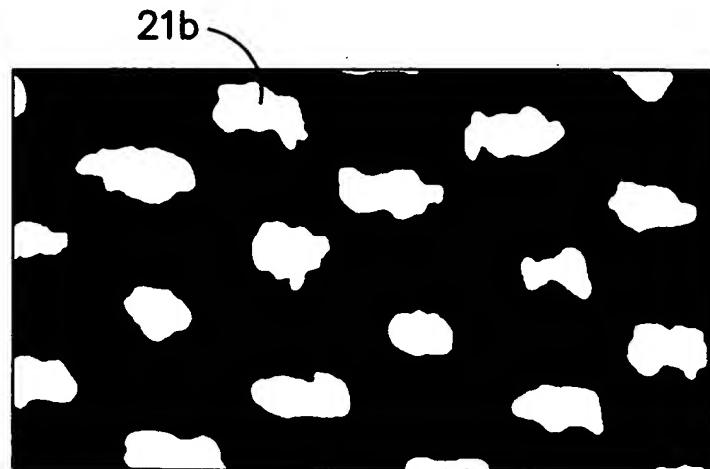


FIG. -9C-